BRIGADE®

CCTV Overview

When it comes to CCTV systems Brigade offers a wide range of reversing safety solutions guaranteed to satisfy the strict requirements of today's varied working vehicle industry.

Whether it's a simple camera to monitor system or a more complex CCTV setup involving thermal imaging cameras and cable-free video transfer, Total Source has what you need.

LCD TFT monitors

Digital video recorders

Pulse power line transmitter & receiver

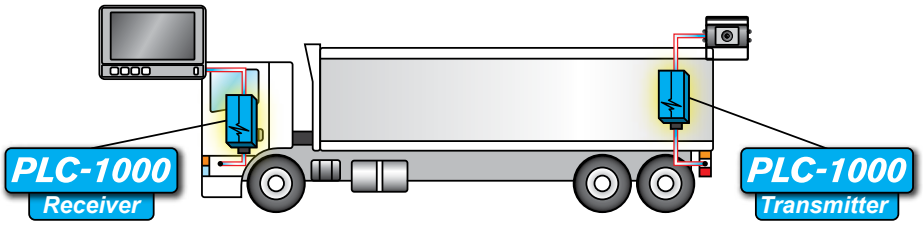
FLIR Thermal imaging cameras

Colour low-light cameras

Surface mount wide viewing angle cameras

Power Line Communicator

REVERSING CAMERA SYSTEM WITHOUT VIDEO CABLES!

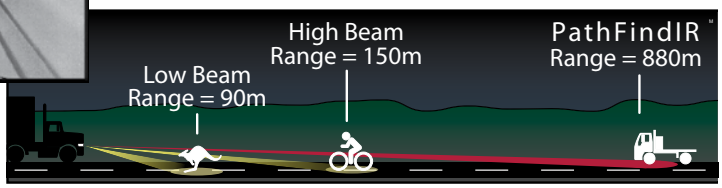


Digital Video Recording Systems

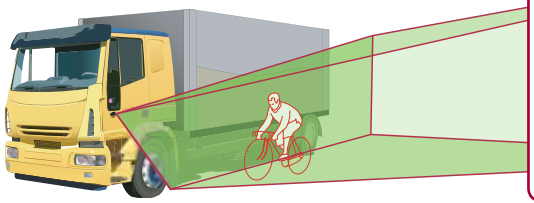
VIDEO SURVEILLANCE

FLIR Thermal Imaging Camera

SEE MORE, BE SAFER!



All Round Visibility with BE-300 Series Cameras



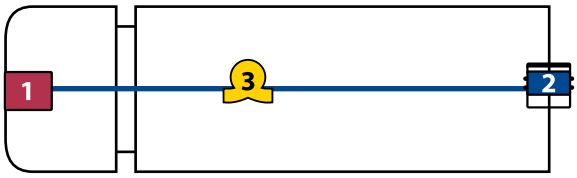
COMPACT, SURFACE MOUNT CAMERAS

The ground breaking, compact all aluminium, BE-300 Series cameras give a clear view of blind spots that exist in spite of conventional mirrors.

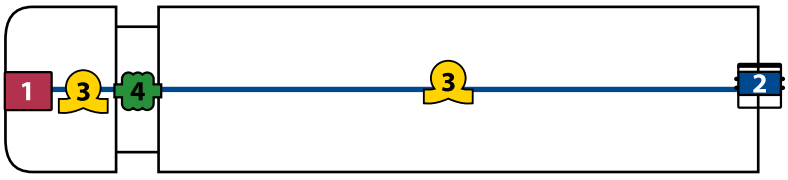
Compatible with both Backeye & Value range monitors, each tiny camera will clearly reveal those hard to see areas around the vehicle.

System Configurations

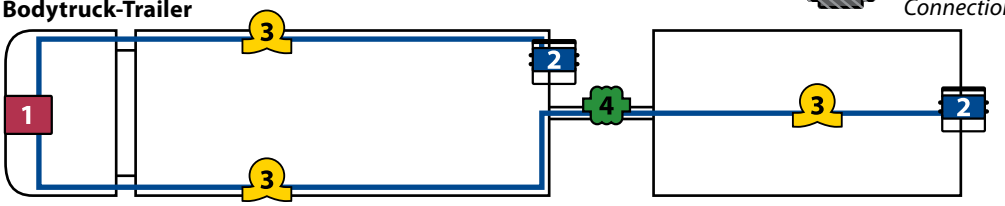
Bodytruck



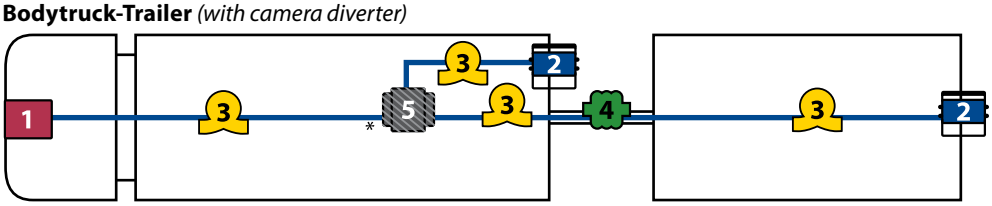
Truck-Trailer



Bodytruck-Trailer



Bodytruck-Trailer *(with camera diverter)*



Monitor -
Select monitor keeping in mind size & camera inputs.

Camera -
Select camera to suit the application.

Cable -
*At least one cable is required connecting the monitor to the camera. *Pulse system also available. Refer to page 49.*

Connections -
If your system is intended for Truck-Trailer or Bodytruck-Trailer application, both connectors and suzi coils are required.

Optional Camera Diverter -
See Backeye / Value Cables & Connections.

Bodytruck-Trailer
*Optional camera diverter box **CS**-020 / **VCS**-020 automatically selects rearmost camera when auxiliary trailer is attached or removed.*

Backeye® Monitors

The Backeye series camera systems are Brigade's premium range of closed circuit television systems. Backed with a 3 year warranty these camera systems are built tough to withstand harsh treatment.

Even under extreme vibration, temperature, and weather conditions the Backeye range of camera systems continue operating, ensuring a safer and more relaxed driving experience.

Ideal for almost any applications from heavy earth moving machinery, to light duty commercial vehicles.

Colour LCD with anti reflective coating

LED backlighting with auto dimmer function

Dual voltage 12V to 24V operation

Up to 4 camera inputs & 4 way split screen

Electronic distance markers

Built-in speaker

Mirror or Normal views

Auto on when reverse gear engaged

Remote control included

Monitors come standard with adjustable mount

Part No. BE-856EM

3YR WARRANTY

Part No. BE-870FM / BE-870EM

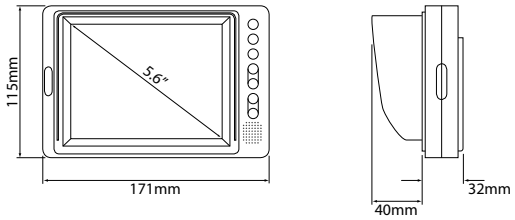
Backeye® Monitor Specifications

Voltage :		*12-24V*
Current Draw :		*1.5Amps*
Video Signal :		*NTSC & PAL*
Audio :		*Integrated Speaker*
Vibration :	*BE-856EM*	*4G*
	BE-870EM / BE-870FM	*15G*
Operating Temp :	*BE-856EM*	*-10°C to +50°C*
	BE-870EM / BE-870FM	*-20°C to +65°C*
EMC:	*BE-870EM / BE-870FM*	*C-Tick*

Backeye® 5.6" Monitor

Part No.	Screen Size	Screen Resolution	Camera Inputs	Split Screen	AV Input	AV Output
BE-**856EM**	5.6"	960 x 234	2	Nil	1	Nil

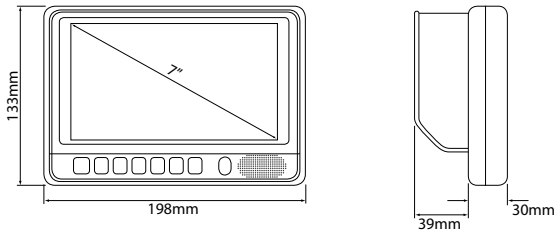
1



Backeye® 7" Monitors

Part No.	Screen Size	Screen Resolution	Camera Inputs	Split Screen	AV Input	Video Output
BE-**870EM**	7"	1440 x 234	2	Nil	1	Nil
BE-**870FM**	7"	1440 x 234	4	2, 3 & 4	1	1

1



Backeye® Monitor Accessories

Part No.	Description	Fig
AC-**012**	Adaptor to allow 2x Backeye Series monitors to connect to a single Backeye Series camera	1
BMM-**011**	Heavy duty mount to suit BE 5.6" monitor	2
BMM-**014**	Heavy duty mount to suit BE 7" monitor	3

Fig.1

Fig.2

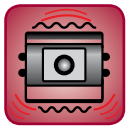
Fig.3

Backeye® Cameras

The Backeye series camera systems are Brigade's premium range of closed circuit television systems. Backed with a 3 year warranty (excluding MD-50), these camera systems are built tough to withstand harsh treatment.

Even under extreme vibration, temperature, and weather conditions the Backeye range of camera systems continue operating, ensuring a safer and more relaxed driving experience.

New to the range are the MD-50 Mini-Dome camera for compact, discreet installation to ceiling or wall panels and the BE-840R with a motorised tilt lens, capable of automatically shifting the viewing area from directly below where the camera is mounted to a standard reversing camera angle. (BE-840C operates in the opposite direction).



Vibration resistant rugged construction

Wide angle view

Ultra low light performance 0.1 lx

Weather proof sealed to IP68

BE-890C - IP69K for protection against steam/pressure cleaning

MD-50 compact surface mount design

Protective camera enclosure available for BE-800C cameras

BE-800C available in 3 viewing angles (32°, 65°, & 105°)

Automatic or manually activated motorised tilt lens

Part No. BE-300C

Part No. BE-800C

Part No. BE-810C

Part No. BE-840R

Part No. MD-50

Backeye® Camera Specifications

Voltage :		*12-24V*
Pixels :	*BE-800 Series / MD-50*	*320,000*
	BE-300 Series	*290,000*
Image Sensor :		*1/3" Sony® CCD*
Microphone :	*BE-800C / BE-810C / BE-840C*	*Yes*
	BE-890C / BE-300 Series / MD-50	*No*
Heating :	*BE-800 Series*	*Auto below +10°C*
	BE-300 Series / MD-50	*No*
Vibration :	*BE-300 Series*	*20G*
	BE-800C / BE-840C	*10G*
	BE-810C / MD-50	*5G*
Body :		*Aluminium*
EMC:	*BE-300 / 800 Series*	*C-Tick*

Backeye® Cameras - 800 Series

Part No.	Mount	Min. Illumination	IP Rating	Protective Shutter	Operating Temp.	Field of View	Figure
BE-**800C**	Pedestal	0.1 lx	IP68	Nil	-30°C to +70°C	105°Hor. 78°Vert.	1
BE-**800C-32**	Pedestal	0.1 lx	IP68	Nil	-30°C to +70°C	32°Hor. 25°Vert.	1
BE-**800C-65**	Pedestal	0.1 lx	IP68	Nil	-30°C to +70°C	65°Hor. 50°Vert.	1
BE-**890C**	Pedestal	0.1 lx	IP69K	Nil	-30°C to +70°C	105°Hor. 78°Vert.	1
BE-**810C**	Pedestal	0.5 lx	IP68	Automatic	-30°C to +50°C	105°Hor. 78°Vert.	2
905**A32**	Protective camera enclosure to suit BE-800 series cameras (excludes BE-810C, BE-840C & BE-840R).						3

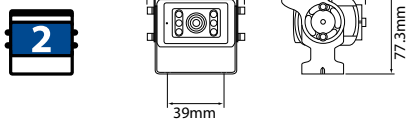


Fig.1

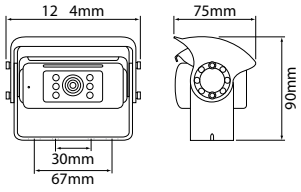
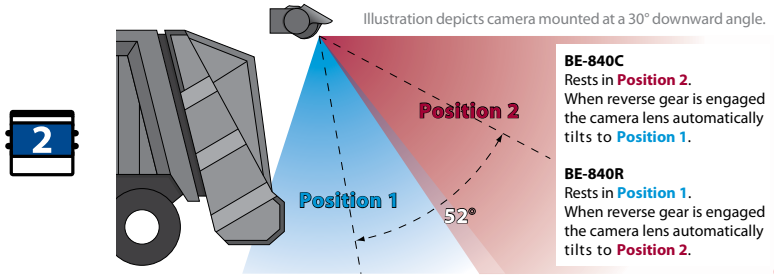


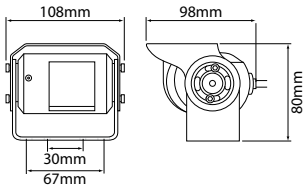
Fig.2

Fig.3

Backeye® Camera - Motorised Tilt Lens

Part No.	Mount	Min. Illumination	IP Rating	Operating Temp.	Lens Tilt Position	Field of View
BE-**840C**	Pedestal	0.1 lx	IP68	-30°C to +50°C	From 2 to 1	74°Hor. 56°Vert.
BE-**840R**	Pedestal	0.1 lx	IP68	-30°C to +50°C	From 1 to 2	74°Hor. 56°Vert.

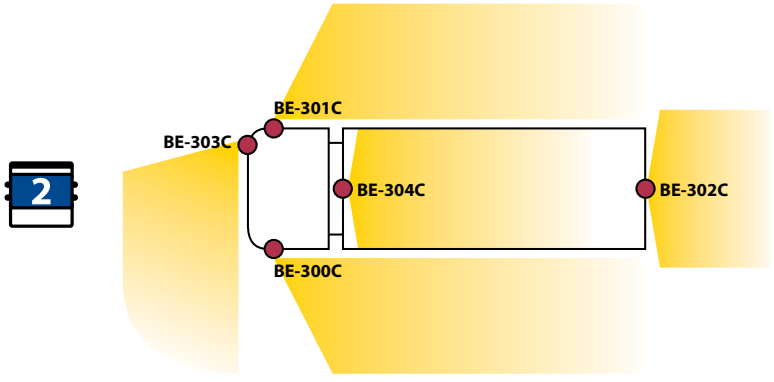

2
Illustration depicts camera mounted at a 30° downward angle.
Position 2
Position 1
52°
BE-840C
Rests in Position 2.
When reverse gear is engaged the camera lens automatically tilts to Position 1.
BE-840R
Rests in Position 1.
When reverse gear is engaged the camera lens automatically tilts to Position 2.

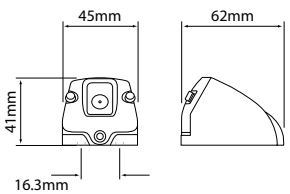


Compatible with Backeye BE-870FM monitor only. Refer page 35.

Backeye® Cameras - 300 Series

Part No.	Mount	Min. Illumination	IP Rating	Operating Temp.	Field of View
BE-**300C**	Left	0.1 lx	IP68	-30°C to +80°C	95°Hor. 72°Vert.
BE-**301C**	Right	0.1 lx	IP68	-30°C to +80°C	95°Hor. 72°Vert.
BE-**302C**	Rear	0.1 lx	IP68	-30°C to +80°C	95°Hor. 72°Vert.
BE-**303C**	Front	0.1 lx	IP68	-30°C to +80°C	95°Hor. 72°Vert.
BE-**304C**	Pendant	0.1 lx	IP68	-30°C to +80°C	95°Hor. 72°Vert.





Backeye® Cameras - Dome Surface Mount

Part No.	Mount	Min. Illumination	IP Rating	Operating Temp.	Field of View	Figure
MD-**50**	Flush	0.4 lx	IP66	-10°C to +50°C	79°Hor. 69°Vert.	1
MD-**50SM**	Surface mounting adaptor. Raises housing 20mm.					2
MD-**50AM**	Angle surface mounting adaptor. Adds approx. 15 degrees to the vertical/horizontal view.					3

2

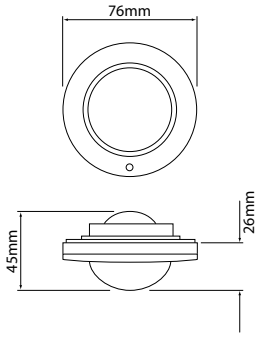


Fig.1

Fig.2

Fig.3

Backeye® Cables & Connections

Description	3m	5m	10m	15m	20m	25m	30m	Figure
Standard cable	-	BE-**L105**	BE-**L110**	BE-**L115**	BE-**L120**	-	BE-**L130**	1
Extension cable	BE-**X003**	BE-**X005**	BE-**X010**	BE-**X015**	BE-**X020**	BE-**X025**	-	2

Standard cables used to connect camera to monitor.

Extension cables connect from standard cables to monitor.

Part No.	Description	Figure
SC-**07**	Suzi Coil for joining SP-07A to SP-07B	3
SP-**07A**	Cab side connector	4
SP-**07B**	Trailer side connector	4
CS-**020**	Optional camera diverter allowing automatic rearmost camera selection when trailer connected	5

3

4

5

Fig.1

Fig.2

Fig.3

Fig.4

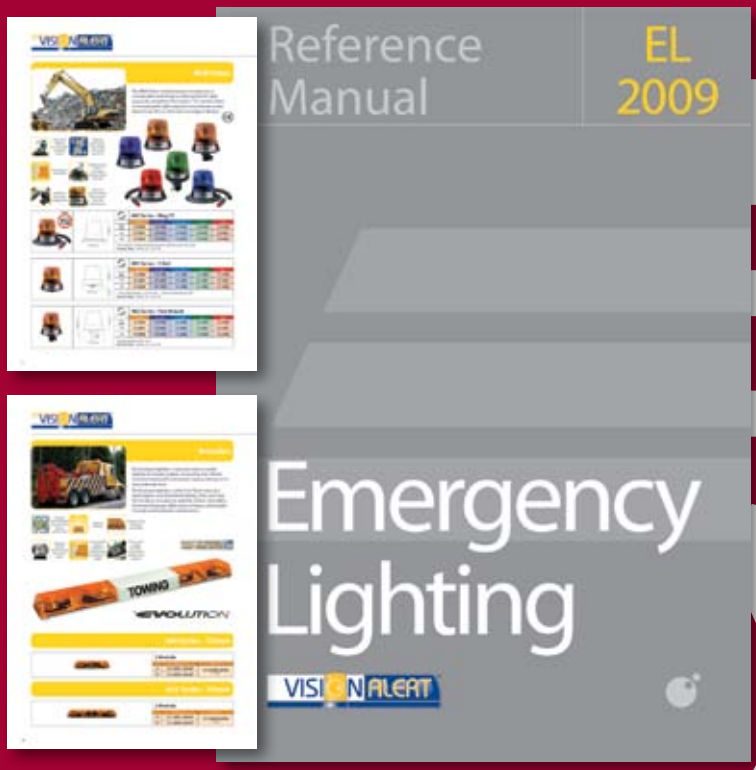
Fig.5

CATALOGUES

Emergency Lighting Catalogue

For a complete catalogue covering our emergency lighting products ask for a copy of **EL2009.**

- LED Vision Rotating
- Beacons \ Strobes
- Evolution Lightbars
- BLAZE Lightbars
- Minebars
- Directional Arrows
- Variable Message Sign
- LED Lighting
- Bus Warning Light Kits
- Strobe Drivers & Accessories



Available now in print or to download from www.ionnic.com

Worklamps Catalogue

For all your worklamp needs ask for a copy of our worklamps only catalogue **WL2009**.

- Heavy Duty LED
- Heavy Duty HID
- Heavy Duty Halogen
- Marine Lamps
- General Purpose Lamps
- Fluorescent Interior Lamps
- Accessories

NORDICLIGHTS

Available now in print or to download from www.ionnic.com

Backeye® Weatherproof Kit

The Backeye Weatherproof Kit is a heavy duty reverse monitor and camera system designed for use in the harshest of conditions and can be installed conventionally in cabin or externally on almost all vehicle types.

The kit is supplied with all components needed for a single camera system and up to 3 additional Backeye Series cameras can be added.

The kit features an IP67 rated weatherproof monitor with up to 4 way split screen, a rugged IP68 rated camera with stainless steel fittings and 20m harness with waterproof connections.

IP67 Weatherproof - perfectly suited for outdoor environments

Standard with heavy duty adjustable monitor mount

Dual voltage 12V to 24V operation

4 Camera inputs with up to 4 way split screen

AV input & output

Built-in speaker

LED backlighting with auto dimmer function

Standard with sun visor

Ultra low light performance 0.1lx

Wide angle view

10G Vibration resistant rugged construction IP68

Weatherproof monitor is rated to **IP67!** ideal for outdoor environments

NEW in RAS2009

3 YR WARRANTY

Backeye® Camera Specifications

Image Sensor :	*Sony® CCD & Sony® DSP*
Min. Illumination :	*0.1 lx*
Microphone :	*Yes*
Heating :	*Auto below 0º*
Pixels :	*291,000*
Field of View :	*104°Hor. 78°Vert.*
Body :	*Aluminium*
Operating Temperature :	*-50°C to +80°C*
IP Rating :	*IP68*
Vibration :	*10G*
Standards :	*SAE J1994, SAE J1455*
EMC :	*C-Tick & ISO 13766 EMC 2006/28/EC*

Backeye® Monitor Specifications

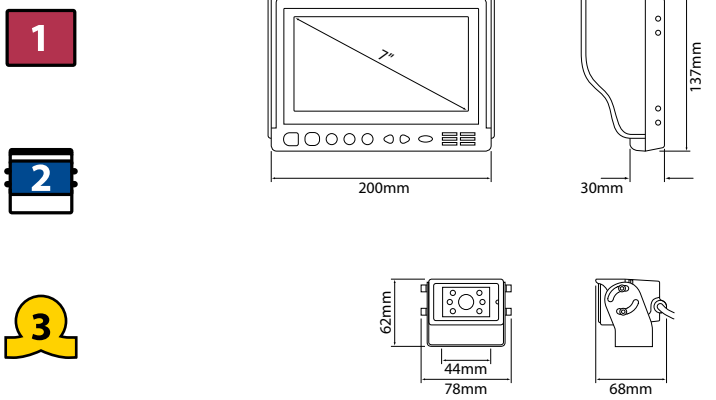
Current Draw :	*0.5Amps @ 12V*
Voltage :	*10-32V*
Video Signal :	*NTSC & PAL*
Audio :	*Integrated Speaker*
Camera Inputs :	*4*
AV Input :	*1*
Screen Size :	*7"*
Screen Resolution :	*1440 x 234*
Split Screen :	*2, 3 & 4*
Operating Temperature :	*-30°C to +80°C*
IP Rating :	*IP67*
Vibration :	*12G*
Standards :	*SAE J1994, SAE J1455*
EMC :	*C-Tick & ISO 13766 EMC for earth moving vehicles*

Backeye® Weatherproof Kit

Part No.	Voltage	Description
BE-**970**-000	12-24	Heavy duty 7″ weatherproof monitor & camera kit

Kit contains:

- *1x Weatherproof 7″ monitor*
- *1x Camera*
- *1x 20m cable*
- *1x Heavy Duty adjustable monitor mount*



Compatible with Backeye Series cables - see page 38.

Value Monitors

The Brigade Value range offers the greatest value for a closed circuit camera system without substituting quality, performance or reliability.

The Value range of monitors are made from high quality materials and components including brand new 'A' grade TFT LCD flat screen monitors, glass lenses, and high quality CCD imaging sensors, all covered by a 2 year warranty.

Colour LCD with anti reflective coating

Auto dimmer function

Dual voltage 12V to 24V operation

Up to 3 camera inputs

Electronic distance markers

Built-in speaker

Mirror or Normal views

Remote control included

Monitors come standard with adjustable mount

Part No. VBV-750BM

2 YR WARRANTY

Part No. VBV-770BM

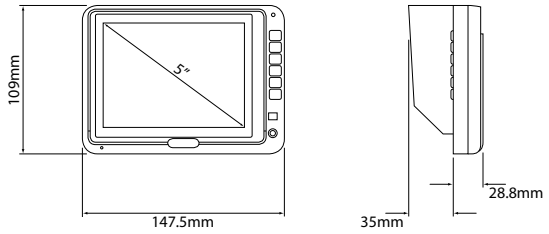
Value Monitor Specifications

Voltage :		*12-24V*
Current Draw :	*VBV-750BM*	*0.7Amps @ 12V*
	VBV-770BM	*0.8Amps @ 12V*
Video Signal :		*NTSC & PAL*
Audio :		*Integrated Speaker /Headphone Jack*
Vibration :		*10G*
Operating Temperature :		*-20°C to +70°C*
EMC:	*VBV-750BM*	*C-Tick*

Value 5" Monitor

Part No.	Screen Size	Screen Resolution	Camera Inputs	AV Input	AV Output
VBV-**750BM**	5" LCD	960 x 234	3	1	Nil

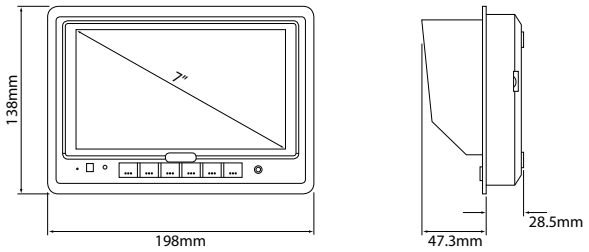
1



Value 7" Monitor

Part No.	Screen Size	Screen Resolution	Camera Inputs	AV Input	AV Output
VBV-**770BM**	7" LCD	1440 x 234	3	1	1

1



Value Monitor Accessories

Part No.	Description
BMM-**011**	Heavy duty mount to suit Value monitors

Value Cameras

The Brigade Value range offers the greatest value for a closed circuit camera system without substituting quality, performance or reliability.

The VBV-700C is a pedestal mount camera for the Value range featuring low-light illumination, wide angle viewing and 10G vibration resistance.

The VBV-485C cylinder camera is the ideal solution for vehicles where installation to the bumper is the best and in some cases only option. It can also be used for internal use. It has 9 infra-red LEDs for ultra-low light performance and can be flush mounted for a neat and secure installation.

The compact and tough **BE-300 Series cameras are also compatible with Value series monitors** allowing the addition of high quality panel mount cameras. Featuring cast housing and low line design the BE300 suits applications where space is limited or in instances where conventional cameras may be prone to damage from external impacts such as tree branches etc.

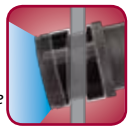
10G Vibration resistant rugged construction

Wide angle view

Ultra low light performance

VBV-700C & VBV-485C weather proof sealed to IP67

VBV-790C - IP69K for protection against steam/pressure cleaning



VBV-485C standard with angled spacers for mounting on sloping surfaces

Easily concealed VBV-485C surface mount camera

Part No. VBV-700C / VBV-790C

NEW in RAS2009

Part No. VBV-485C

Value Camera Specifications

Voltage :	*12V (supplied from monitor)*	
Pixels :		*300,000*
Image Sensor :		*1/3" Sharp® CCD*
Microphone :	*VBV-700C*	*Yes*
	VBV-485C/VBV-790C	*No*
Vibration :		*10G*
Body :		*Aluminium*
EMC:	*VBV-700/790C*	*C-Tick*

Value Cameras

Part No.	Mount	Min. Illumination	IP Rating	Operating Temp.	Field of View	Figure
VBV-**485C**	Flush	0.1 lx	IP67	-20°C to +60°C	98°Hor. 75°Vert.	1
VBV-**700C**	Pedestal	0.1 lx	IP67	-20°C to +70°C	88°Hor. 66°Vert.	2
VBV-**790C**	Pedestal	0.1 lx	IP69K	-20°C to +70°C	88°Hor. 66°Vert.	2

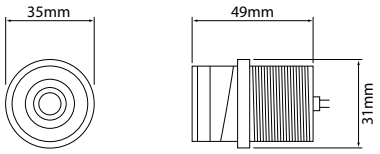


Fig.1

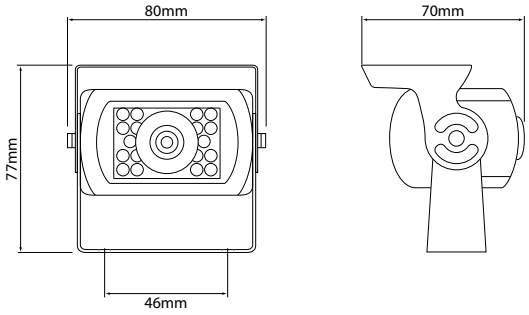


Fig.2

BE-300 Series cameras compatible with Value Series monitors - see page 37.

Value Cables & Connections

Description	2.5m	5m	10m	20m	30m	Figure
Standard cable	VBV-**L4025**	VBV-**L405**	VBV-**L410**	VBV-**L420**	VBV-**L430**	1

Standard cables used to connect camera to monitor & can be used as an extension cable.

Part No.	Description	Figure
VSC-**07-24S**	Suzi Coil for joining VSP-47A to VSP-47B	2
VSP-**47A**	Cab side connector	3
VSP-**47B**	Trailer side connector	4
VCS-**020**	Optional camera diverter for automatic rearmost camera selection when trailer connected	5

Fig.1

Fig.2

Fig.3

Fig.4

Fig.5

Base Model Kit

The Base Model Kit is Brigade's entry level reversing camera system and comes with everything required for a single camera system.

The kit includes monitor, camera and 20m of cable ensuring the Base Model Kit is suitable for installation on most vehicle types.

Featuring a 5" colour monitor with adjustable mount and a wide viewing angle, low light camera.

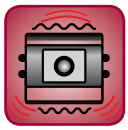
The Base Model Kit features a 1 year warranty and is ideal when a basic single camera/monitor system is required.

Dual voltage 12V to 24V operation

Anti-glare screen

Standard with adjustable monitor mount

Wide angle view



10G vibration resistant rugged construction IP67

Ultra low light performance

NEW in RAS2009

Camera Specifications

Image Sensor :	*1/4" Sharp® CCD*
Min. Illumination :	*0.1 lx*
Microphone :	*No*
Heating :	*Nil*
Pixels :	*300,000*
Field of View :	*96°Hor. 72°Vert.*
Body :	*Aluminium*
Operating Temperature :	*-10°C to +70°C*
IP Rating :	*IP67*
Vibration :	*10G*
Standards :	*HALT Tested*
EMC :	*'e' Approved*

Monitor Specifications

Current Draw :	*0.65Amps @ 12V*
Voltage :	*12-24V*
Video Signal :	*NTSC & PAL*
Audio :	*Integrated Speaker (AV input only)*
Camera Inputs :	*1*
AV Input/Output :	*1*
Screen Size :	*5"*
Screen Resolution :	*960 x 234*
Operating Temperature :	*-10°C to +60°C*
Vibration :	*5G*
Standards :	*HALT Tested*
EMC :	*'e' Approved*

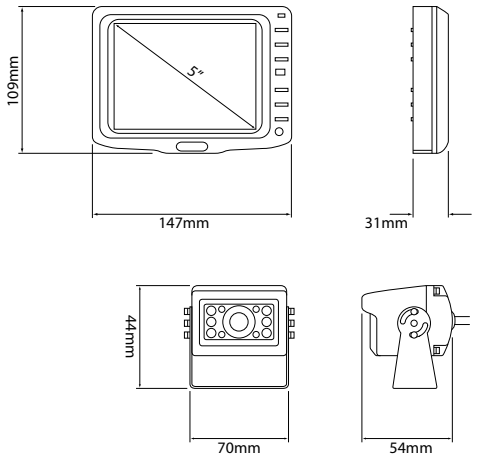
Base Model Kit

Part No.	Voltage	Description
VBV-**650**-000	12-24	5" monitor & camera kit

Kit contains:

- *1x 5" Monitor*
- *1x Camera*
- *1x 20m cable*
- *1x Adjustable monitor mount*

Cable extensions available upon request.



Compatible with Value Series cables - see page 45.

FLIR PathFindIR™

The PathFindIR camera is a high performance, rugged, thermal imaging camera designed to provide vision enhancement in adverse conditions.

Thermal imaging allows heat signatures produced by people and animals to be quickly and easily identified making the PathFindIR extremely effective when searching for hidden or obscured personnel.

Fire and Emergency Services using the PathFindIR can also locate hot spots inside buildings, on the ground and in vegetation after the main blaze has been quelled.

Capable of seeing in complete darkness

Earlier hazard recognition

880m range. More than 4 times further than headlights

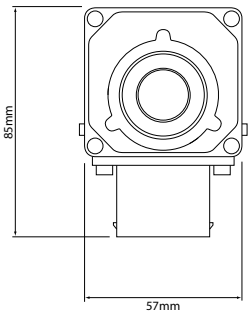
Rugged heavy duty construction

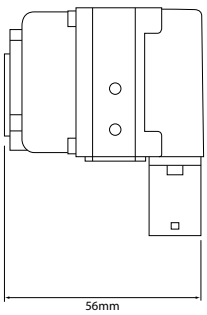
Compact design allows easy concealment in vehicles

Saves lives, property, and profits

Maintenance free system delivering excellent image quality

36° lens for excellent situational awareness





PathFindIR™ Specifications

Voltage :	*6-16V*
Power Consumption :	*2 Watts (6 Watts with heater on)*
Detector Type :	*Uncooled microbolometer*
Spatial Range :	*8 to 14 µm*
Thermal Sensitivity :	*100 mK at +25°C*
Image Frequency :	*8.3 Hz Pal or 7.5 Hz NTSC*
Focus :	*Automatic (25m to infinity)*
Image Processing :	*Digit Detail Enhancement (DDvE)*
Time to Image :	*< 2 seconds*
Operating Temp :	*-40°C to +80°C*
Sand / Dust :	*Mil-Std810*
Shock :	*30 G, IEC 60068-2-27Ea*
Vibration :	*IEC 60068-2-64*
Weight :	*360 grams*
IP Rating :	*IP67*
Certification :	*CE & 'E' Mark*

FLIR PathFindIR™

Part No.	Voltage	Description
334-**0001**-00PS	12	Heavy duty thermal imaging camera. 308-0121-00 cable required
308-**0121**-00	12	6m PathFindIR cable with 2x open power leads and BNC connector
261-**1470**-00	12	Universal mount bracket to suit 334-0001-00PS

Camera power supplied via Brigade monitor or external source.

Pulse - Power Line Communicator

The Pulse PLC-1000 removes the need to install a camera cable between the camera and the monitor, whilst still maintaining the security and quality of a hard-wired connection.

The camera is connected to an existing power circuit via the PLC transmitter, and the monitor is connected to the same power circuit in the cab via the PLC receiver, replacing the need for a camera cable.

Can be temporarily fitted for short term use

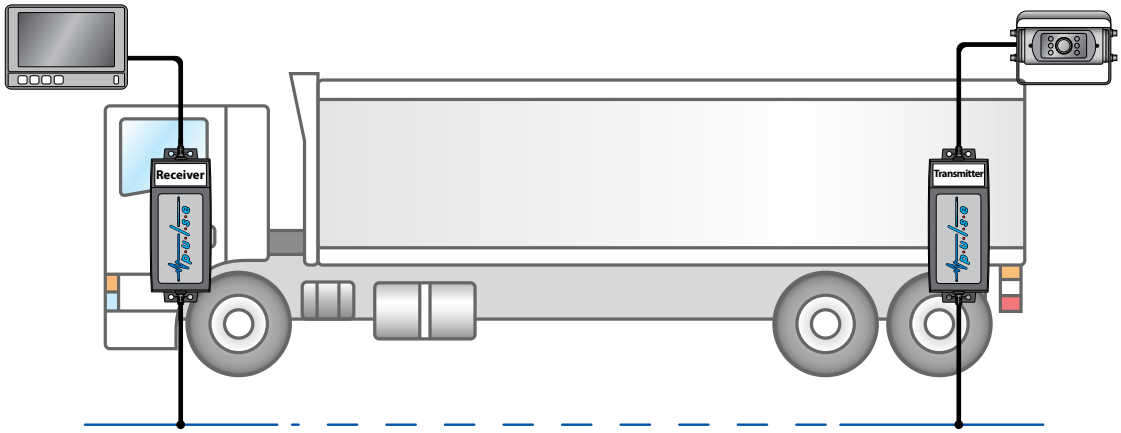
No need for video cables or extra suzi coils

High quality video output

Compatible with both the Backeye and Value range CCTV systems

Compatible with all sizes of vehicles

Quick & easy setup for less installation time

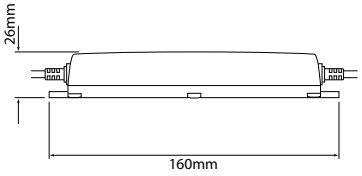


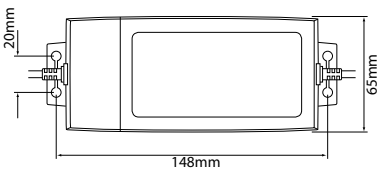
Existing Reverse / Nominated Circuit

Existing Reverse / Nominated Circuit

Pulse PLC-1000 Specifications

Voltage input :	*12-24V*
Camera Voltage Output :	*12V*
Power Consumption :	*80mA @ 24VDC*
Video Input/Output :	*1.0Vp-p, 75*
Operating Temp :	*-20°C to +60°C*
Weight :	*290 grams*
IP Rating :	*IP68 (transmitter only)*





Pulse - Power Line Communicator

Part No.	Voltage	Description
PLC-**1000**	12-24	Power line communication kit (Transmitter and Receiver)

Not to be used in conjunction with CAN bus or body multiplex systems.

Comes standard with adaptors for both the Backeye and Value range.

BRIGADE®

Digital Video Recorder

The MDR-304 is an advanced digital video recorder designed specifically for use in mobile environments.

The recorder unit inside MDR-304 can be easily removed allowing trouble-free linkup with a computer or TV.

In addition the MDR-304 is capable of displaying real-time images simultaneously from four cameras along with journey data directly onto your in-cab monitor.

The MDR-304 digital video recorder features a multitude of record and playback settings yet remains simple and user friendly making it perfect for any application.

Removable recorder unit with USB connector

Rapid search of recordings

Embed GPS & blackbox data *Requires optional GPS module or 3rd party blackbox*

On-site, PC or TV playback capabilities

Record on manual activation, movement or alarm

Endless loop recording or stop when hard drive filled

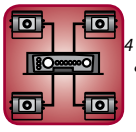
4 levels image quality at up to 25 fps (PAL)

Up to 30 hours of recording time at highest resolution and frame rate

Software included for viewing files on PC

Save snapshot image & data directly to SD Card

Save & load all settings onto SD card for easy unit configuration



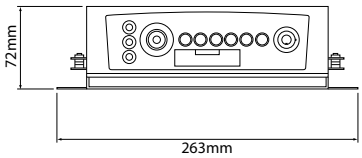
4 camera inputs & up to 4 way split screen

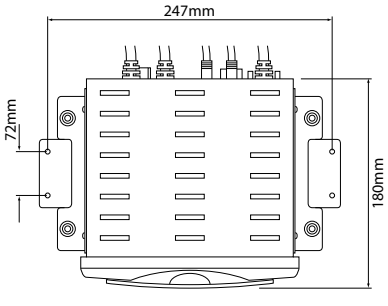
Password lockout disables controls for tamper free operation

Part No. MDR-304-160

MDR-304-160 Specifications

Voltage :	*12V*
Current Draw :	*2A (Max.)*
Standby Current Draw :	*0.25A @ 12V*
Vibration :	*1.25 G rms*
Mechanical Shock :	*8 G*
Operation Temperature :	*0°C to +65°C*
Camera Inputs:	*4*
Auxiliary Audio In :	*2 x RCA*
Auxiliary Video Out :	*1 x RCA*
Auxiliary Audio Out :	*1 x RCA*
Communication Port :	*1 x RS-232*
Auxiliary inputs :	*SD Card, Mini USB*
GPS Supported :	*Yes*
Recording Rate :	*1 frame every 16 seconds up to 25 fps (PAL)*
Recording Capacity :	*Best Quality 3.8Hrs per 20GB*
	Basic Quality 2290Hrs per 20GB
Hard Drive Size :	*160GB (1000MB = 1GB)*
Resolution :	*720 x 576 Pixels (PAL)*
Alarm Recording :	*Pre-Alarm / Post Alarm*
Window Divisions :	*1/2/3/4*
Search :	*Record List / Event List / Time & Date / Thumbnail*
Fast Search :	*1x, 2x, 4x, 8x, 16x, 30x, 100x*
Slow Search :	*1/2x, 1/4x, 1/8x, 1/16x*
Compression :	*MPEG*
Password Protection :	*Yes, operation-menu setup*
Certificate :	*FCC / CE / RoHS / E / e-mark*





Digital Video Recorder

Part No.	Description	Fig
MDR-**304**-160	Mobile digital recording system 12V base kit - 160GB	1
AC-**301**	Camera adapter (Value range to MDR) 1 required per Brigade camera	2
AC-**302**	Camera adapter (Backeye range to MDR) 1 required per Brigade camera	3

Base kit contains:

- *Removable digital video & data recorder - 160GB*
- *Caddy with anti-vibration mount*
- *Mini USB cable*
- *PC Software*
- *User manual*
- *240V to 5V power adaptor*
- *2x Keys for physically locking removable recorder unit*

Fig.1

Fig.2

Fig.3

Digital Video Recorder Accessories

Part No.	Description	Figure
GPS-**6015**	GPS Receiver with 5m cable	1
RC-**300**-060	Remote Controller with 6m Cable	2
P**5024**	Reducer 7A continuous 24V to 12V - Required for 24V installations	3

Fig.1

Fig.2

Fig.3

DVR software - HDD Viewer

HDD Viewer software is supplied as part of the base kit. This simple to use PC program features standard video playback controls as well as options to save single image jpg's and video files in popular formats.

HDD Viewer can also synchronise with virtual globe programs such as Google™ Earth Plus, allowing you to automatically follow the journey as the video plays.

Quick and simple video reviewing
Browse recorded video straight off the hard drive
Track journeys along side video
Synchronise with virtual globe programs
Split screen up to 16 video channels at once or one at a time
Take jpg snap shots with a click of a button
Easy to use playback controls including frame by frame
STOP

DVR - Connection Diagram

Cameras

When connecting a Brigade Backeye or Value series CCTV camera system to your DVR make sure the corresponding Y-piece adaptor is used to ensure a simple plug together wiring process. This allows for both the camera and monitor to work as it would in a standard CCTV installation.

One **AC-301** Y-piece adaptor is required per camera when connecting to a Value series CCTV system.

One **AC-302** Y-piece adaptor is required per camera when connecting to a Backeye range CCTV system.

Monitor